

Multi-Source Ignition Detection



KEY APPLICATIONS

- **Wildland firefighting:** prioritize resource allocation and deploy crews based on intelligence you can trust
- **Energy utilities:** safeguard critical infrastructure and minimize operational disruptions
- **Community safety:** deliver clear, actionable early warnings and evacuation alerts to communities at risk
- **Land management agencies:** minimize threat to natural resources, wildlife habitats, and recreational assets

Unlock smarter decisions with superior ignition detection

When wildfires spark, making quick, accurate decisions is crucial. Fires can lurk unseen for hours or days, posing a huge risk. Wildfire professionals, utility companies, and first responders alike can't afford to put people and property in danger by relying on limited information to guide critical decisions when minutes matter.

That's why AEM Elements 360 provides a multi-dimension intelligence and decision support hub that centralizes data for fire weather, lightning strikes, satellite hotspots, air quality, AI smoke detection, and more in a single application. The result is an actionable command center that wildfire leaders can use to inform, transform, and continuously improve their approach to wildfire risk.



Multi-source data fusion



AI-powered camera insights



Customized, intelligent alerts

Benefits:



Boost confidence in decisions by harnessing AI and intelligent alerts to quickly and precisely confirm wildfire ignitions during the critical early moments.



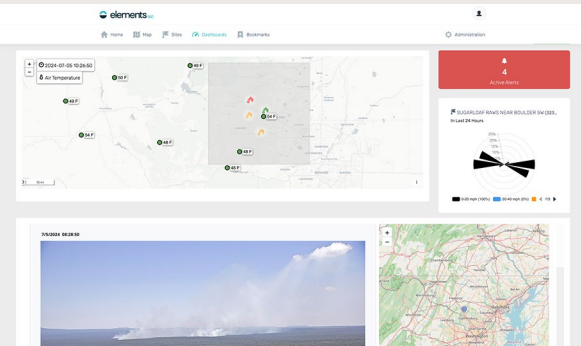
Eliminate delays from fragmented data and significantly reduce false alarms by cross-checking multiple sources in one application.



Future-proof your wildfire risk strategy by utilizing an integrated application powered by cutting-edge technology and diverse data sources.

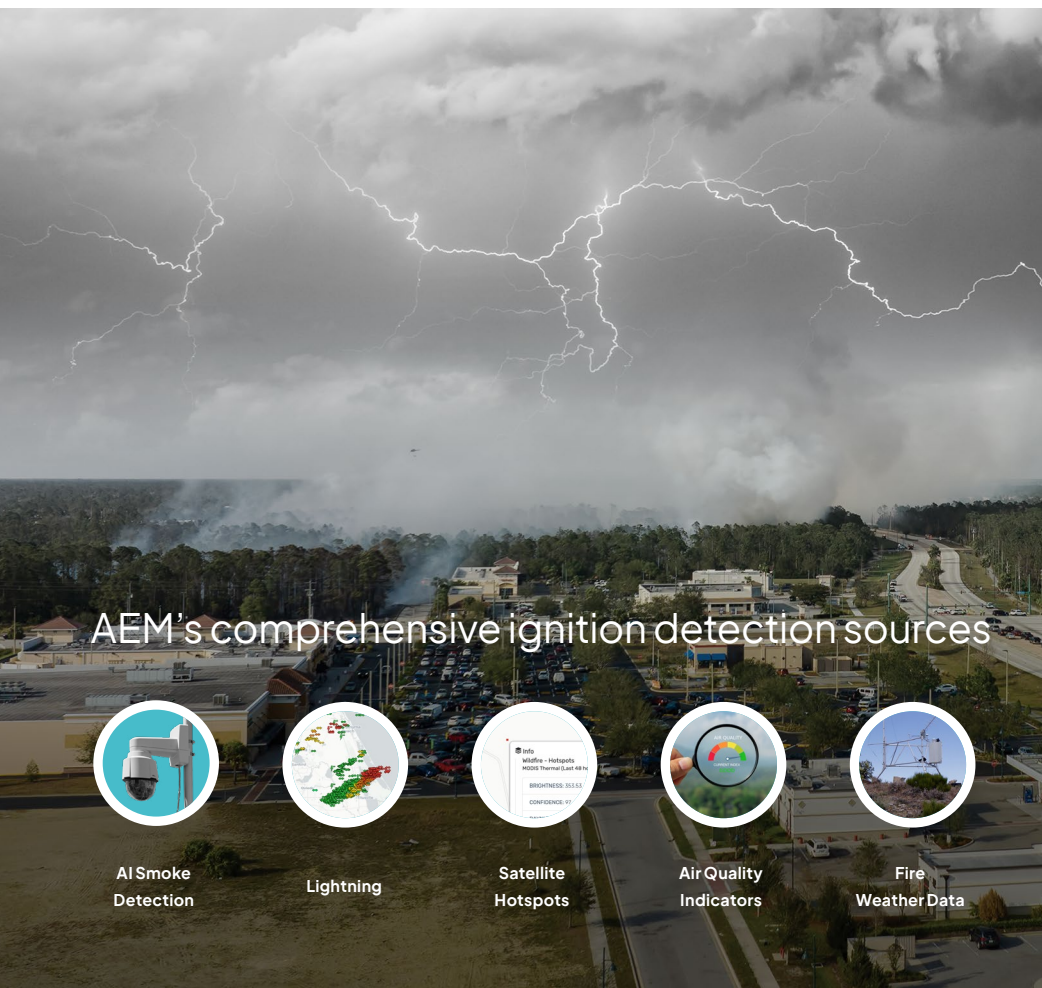


Enhance coordination and streamline communication by extending accurate information to fire professionals, agencies, and the community.



Harness diverse data for rapid wildfire detection

Swift and precise wildfire detection requires a holistic approach that blends various data sources. AEM offers a dynamic solution designed to integrate multiple data points, pinpoint high-risk areas, and validate ignition points efficiently. Our forward-thinking application can be customized to align with your needs to provide rapid and reliable confirmation of ignitions and enable prompt, decisive action.



AEM's comprehensive ignition detection sources



AI Smoke Detection



Lightning



Satellite Hotspots



Air Quality Indicators



Fire Weather Data

AI SMOKE DETECTION

Reduce response times and minimize false alerts with cutting-edge AI algorithms that can visually pinpoint wildfire smoke in minutes.

LIGHTNING DETECTION

Tap into our Earth Networks Total Lightning Network® to identify and monitor recent lightning strikes for new ignitions.

SATELLITE HOTSPOTS

Use satellite data to scan for abnormal heat signatures or sudden temperature increases and identify potential wildfire locations.

AIR QUALITY INDICATORS

Analyze shifts in particulate air pollution and carbon monoxide levels to recognize potential ignitions that other sources may not detect.

FIRE WEATHER DATA

Seamlessly incorporate real-time weather station data, ENcast® AI-powered weather forecasts, public warning systems, and more.

Leverage the power of AEM Elements 360

Real-time alerting

Create rules-based alerts for timely and efficient information sharing

Situational awareness

Turn data into insights using a suite of configurable maps, charts, dashboards

Asset management

See at a glance which assets and communities are closest to the fire

